

REMARKS

Claims 1-21 are pending in the application, with claims 1, 8, 11, 15 and 18 being the independent claims. Claims 1, 8, 11, 15 and 18 are sought to be amended. Entry and consideration of this Amendment is respectfully requested. No new matter is believed to have been introduced by this Amendment.

Applicants have made the above Amendment to more particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Based on the above Amendment and the following remarks, Applicants respectfully request that the Examiner reconsider and withdraw all outstanding rejections.

Rejections under 35 U.S.C. § 103(a)

Claims 1-21 are rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over U.S. Patent No. 6,275,531 (hereinafter referred to as "the Li patent") in view of U.S. Patent No. 5,767,910 (hereinafter referred to as "the Lizuka patent"). Applicants respectfully traverse these rejections since the Li and Lizuka patents, either taken alone or in combination, do not teach or suggest each element of amended independent claims 1, 8, 11, 15 and 18 for at least the following reasons.

The present invention rearranges the data set in memory with a non-raster order scan in order to place the data set in data processing order (e.g., zigzag ordered). One of the benefits of the rearranged data set in memory being in data processing order is that the

rearranged data set can now be accessed in a contiguous manner and therefore reduces the number of address calculations required to process the data set. Independent claims 1, 8, 11, 15 and 18 have been amended to include the similar feature(s) of placing the data set in data processing order by scanning and rearranging the ordered matrix of coefficients of the data set in memory with a non-raster order scan and then accessing the rearranged data set in memory in a contiguous manner. Support for the amendment can be found, for example, in the specification on page 9, lines 3-5, 15 and 16.

The Li and Lizuka patents, either taken alone or in combination, do not teach or suggest the above added feature(s). Therefore, for at least this reason, independent claims 1, 8, 11, 15 and 18 (and their dependent claims 2-7, 9, 10, 12-14, 16, 17 and 19-21) are patentable over the Li and Lizuka patents, either taken alone or in combination. Accordingly, Applicants request that the rejections under 35 U.S.C. § 103(a) be reconsidered and withdrawn.

INVITATION FOR A TELEPHONE INTERVIEW

The Examiner is invited to call the undersigned, Molly A. McCall, at (703) 633-3311 if there remains any issue with allowance of the case.



CONCLUSION

Applicants respectfully submit that all of the stated grounds of rejection have been properly traversed accommodated or rendered moot. Applicants believe that a full and complete response has been made to the outstanding Office Action. Thus, Applicants believe that the present application is in condition for allowance, and as such, Applicants respectfully request reconsideration and withdrawal of the outstanding rejections, and allowance of this application.

Respectfully submitted,

Intel Corporation

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/Molly A. McCall # 46,126/

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P12636 Reply to Nonfinal OA

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DEBORAH L. HIGHAM
Name of Person Mailing Correspondence

Molly A. McCall
Signature
12-28-04
Date